Ceilcote_® 242HB **Flakeline**



Vinyl Ester

PRODUCT DESCRIPTION

Ceilcote 242HB Flakeline is a glass flake filled vinyl ester high build lining for use on steel and concrete substrates.

Ceilcote 242HB Flakeline has excellent resistance to organic and inorganic acid solutions and many aliphatic solvents. The coating system can achieve a dry film thickness of up to 54 mils (1350 microns) in a single coat with or without the use of a primer. The intent is to eliminate one application step where similar coating systems require two separate applications. Ceilcote 242HB Flakeline can be applied on concrete and metal surfaces with proper surface preparation.

INTENDED USES

Designed for use on FGD duct linings, tanks, trenches and pits, vaults and dykes, secondary containment and floors.

Ceilcote 242HB Flakeline demonstrates excellent chemical resistance in a variety of services. Utilisation of glass flake gives the product excellent permeation resistance.

High Build (HB) application to reduce number of coats required (can be applied single coat), minimised application time and potential inter-coat issues.

Resistant to different renewable/bio feedstocks and refine products (fuels) including animal/vegetable oils and fats, biodiesel, etc. Resistant to unlimited fatty acid content.

PRACTICAL INFORMATION FOR CEILCOTE 242HB FLAKELINE

Color	Gray, Off White
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Gloss Level Not applicable

Volume Solids 90% ± 2%

Typical Thickness 30-54 mils (750-1350 microns) dry equivalent to 33.3-60 mils (833-1500 microns)

Theoretical Coverage 36 sq.ft/US gallon at 40 mils d.f.t and stated volume solids

0.90 m²/liter at 1000 microns d.f.t and stated volume solids

Allow appropriate loss factors. Coverage will vary according to individual **Practical Coverage**

systems; consult the relevant Application Guidelines and specification for further

information.

Method of Application Airless Spray

Drying Time

Overcoating Interval with recommended toncoats

Temperature	Touch Dry	Hard Dry	Minimum	Maximum
50°F (10°C)	90 minutes	3 hours	4 hours	7 days
77°F (25°C)	60 minutes	2 hours	2 hours	7 days
104°F (40°C)	15 minutes	45 minutes	60 minutes	3 days

REGULATORY DATA Flash Point (Typical) Part A 90°F (32°C); Part B 133°F (56°C)

11.1 lb/gal (1.33 kg/l) **Product Weight**

2.64 lb/gal (317 g/lt) EPA Method 24 VOC

0.44 lb/gal (54 g/lt) SCAQMD Method 304-91

See Product Characteristics section for further details

Protective Coatings

Ceilcote_® 242HB Flakeline



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SURFACE PREPARATION

All steel surfaces to be coated should be clean, dry and free from contamination. Prior to paint application, all surfaces should be assessed and treated in accordance with ISO 8504-2000.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Steel Substrates

For immersion or intermittent splash and spillage conditions, abrasive blast to "White Metal" in accordance with SSPC SP5, NACE 1 or ISO 8503-1 Sa3. A minimum surface profile of 3 mils (75µm) is required. If a holding primer is required for Ceilcote 242HB Flakeline , then only use Ceilcote 380 Primer at 2-5 mils (50 - 125µm) WFT as advised.

Concrete Substrates

Concrete should be well cured prior to coating. The concrete surface should be dry and pass the plastic sheet test (ASTM D4263). All surfaces should be clean, dry and free from curing compounds, release agents, trowelling compounds, surface hardeners', efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All concrete surfaces must also be abrasive blast cleaned to provide a roughened surface and remove laitance. The surface tensile strength (ASTM 4541) as prepared should be at least 300 psi (2MPa) for linings or 200 psi (1.4 MPa) for coatings. Surfaces must be primed using Ceilcote 380 Primer at 2-5 mils WET (50-125 microns WFT). Consult the Ceilcote 242HB Flakeline Application Guidelines for more details regarding surface preparation.

APPLICATION

Mixing Material is supplied in two containers as a unit. Complete units should be stored, mixed

and applied in accordance with the Ceilcote 242HB Flakeline Application Guidelines.

Mix Ratio 1 gallon Part A: 2½oz Part B (1 litre Part A: 20ml Part B)

Working Pot Life 50°F (10°C) 77°F (25°C) 104°F (40°C)

90 minutes 60 minutes 15 minutes

Airless Spray Recommended Tip Range 35-43 thou (0.9-1.09 mm)

Total output fluid pressure at spray tip not less than 2204 psi

(155 kg/cm²)

Air Spray (Pressure Pot)

Not suitable

Air Spray

Not suitable

(Conventional)
Brush

Suitable - Small areas only

Roller Not suitable

Thinner DO NOT THIN

Cleaner Ceilcote T-410 Solvent (or MEK)

Work Stoppages Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all

equipment with T-410 Solvent. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly

mixed units

Clean Up Clean all equipment immediately after use with T-410 Solvent. Frequency of cleaning will

depend upon amount applied, temperature and elapsed time, including any delays.

All surplus materials and empty containers should be disposed of in accordance with

appropriate regional regulations/legislation.

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PRODUCT CHARACTERISTICS

The detailed Application Guidelines for the relevant Ceilcote system should always be consulted prior to use.

This datasheet provides general guidance on the use of Ceilcote 242HB Flakeline . Specific project requirements will be dependent upon the service end use and operating conditions. Always consult International Protective Coatings to confirm that Ceilcote 242HB Flakeline is suitable for contact with the product to be stored.

The detailed project coating specification provided by International Protective Coatings must be followed at all times.

The Ceilcote 242HB Flakeline application shall be conducted by the Applicator Company using employees trained in the appropriate application procedures. It is strongly advised that both supervisory and application personnel on site shall have attended a Ceilcote Applicator Training Program.

Elevated storage temperatures reduce shelf life. Uncatalyzed Ceilcote 242HB Flakeline is stable for 6 months from date of manufacture when stored below 77°F (25°C) in its original sealed containers. Ceilcote 242HB Flakeline should never be stored in direct sunlight. It is recommended that material temperatures be kept as low as possible via refrigeration if necessary in order to prolong shelf life and pot life during airless spray application. It is important to take into consideration that material temperatures will increase following mixing. A recommended storage temperature range is 46°F-66°F (8°C-19°C)

Ceilcote 242HB Flakeline is recommended to be applied by airless spray; application by brush, may require multiple coats and is suggested for small area or areas where spraying is not an option. Surface texture and uniformity will vary with brush application.

Ceilcote 242HB Flakeline can be specified as a single coat application at 30 to 54 mils (750 to 1350 microns) DFT per coat in order to achieve optimum performance. This product must <u>not</u> be thinned as the use of thinners may severely inhibit the curing mechanism of the coating.

Surface temperature must always be a minimum of 5°F (3°C) above dew point. The relative humidity during application and curing should not exceed 80%. This product will not cure adequately below 50°F (10°C). For maximum performance ambient curing temperatures should be above 50°F (10°C). Dehumidification (DH) air conditioning and/or heating equipment may be necessary to control environmental conditions.

Do not apply if substrate temperature is more than 110°F (43°C). If temperature drops below 50°F (10°C) for short durations, consult International Protective Coatings representative.

When working outside or in direct sunlight, concrete "gassing" or "breathing" may occur when the surface temperature is rising due to sunlight or increasing ambient temperature. This can cause bubbles or holes in the applied floor, lining or coating. When this problem occurs it is necessary to shade the surface from sunlight and/or apply the material in the cooler evening or at night so that initial cure can take place without air escaping from the concrete. Consult International Protective Coatings for more detailed recommendation.

Where the overcoating interval is exceeded, confirm recoatability by wiping with styrene monomer. If the surface becomes 'tacky', adhesion is acceptable. If not softened by styrene, the surface must be sweep blasted or mechanically abraded to provide a non-glossy, abraded surface. Primed surface must be dry and free of foreign matter at time of lining, coating or flooring application. When exposed to direct sunlight, Ceilcote 242HB Flakeline should be overcoated within 12 hours to avoid intercoat adhesion problems.

Maximum continuous dry temperature resistance for Ceilcote 242HB Flakeline is 350°F (177°C). Consult International Protective Coatings for temperature limits for specific environments. Ceilcote 242HB Flakeline is not intended to be used as a cosmetic finish and color stability will not be achievable.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in color and normal manufacturing tolerances. Low molecular weight reactive additives, which will form part of the film during normal ambient cure conditions, will also affect VOC values determined using EPA Method 24.

SYSTEMS COMPATIBILITY

Ceilcote 242HB Flakeline is designed to be used in combination with a number of Ceilcote primers, linings or coatings. Please consult the specification and Application Guidelines.

The following optional Primers are recommended for Ceilcote 242HB Flakeline : Ceilcote 380 Primer

The following optional Undercoats are recommended for Ceilcote 242HB Flakeline :

Ceilcote 140 Flakeline Ceilcote 242MR Flakeline Ceilcote 652 Lining Ceilcote 6640 Ceilcrete

Ceilcote CeilLine Saturant

The following optional topcoats are recommended for Ceilcote 242HB Flakeline :

Ceilcote 242 Flakeline Ceilcote 242AR Flakeline Ceilcote 242GF Flakeline Ceilcote 242LSE Flakeline

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ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- · Definitions & Abbreviations
- · Surface Preparation
- · Ceilcote 242HB Flakeline Installation Procedures
- · Ceilcote Technical Bulletins

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult AkzoNobel for further advice.

PACK SIZE	Unit Size	Part A Vol Pack	Part B Vol Pack				
	4 US gal 25 US gal	4 US gal 5 US gal 25 US gal 30 US gal	0.08 US gal 0.13 US gal 0.57 US gal 1 US gal				
	For availability of other pack sizes, contact AkzoNobel.						
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A	Part B				
	4 US gal	49 lb	0.8 lb				
	25 US gal	318.5 lb	5.8 lb				
STORAGE	Shelf Life	` '). Subject to re-inspection thereaft from sources of heat and ignition	•			

Disclaimer

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.

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